

## Recombinant Human DGKG Protein, His-tagged

Cat. No. DGKG-01H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant full-length isoform 1 of human Diacylglycerol kinase gamma (DGKG) was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.

**Species** Human

**Source** Insect Cells

**Description** This gene encodes an enzyme that is a member of the type I subfamily of diacylglycerol kinases, which are involved in lipid metabolism. These enzymes generate phosphatidic acid by catalyzing the phosphorylation of diacylglycerol, a fundamental lipid second messenger that activates numerous proteins, including protein kinase C isoforms, Ras guanyl nucleotide-releasing proteins and some transient receptor potential channels. Diacylglycerol kinase gamma has been implicated in cell cycle regulation and in the negative regulation of macrophage differentiation in leukemia cells. Multiple transcript variants encoding different isoforms have been found for this gene.

**Molecular Mass** 97 kDa

**Purity** > 90%

**Applications** Kinase Assay

**Stability** One year at -70 centigrade from date of shipment.

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<b>Storage</b>	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Concentration</b>	0.1 µg/µL
<b>Storage Buffer</b>	Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.25 mM DTT, 25% glycerol.

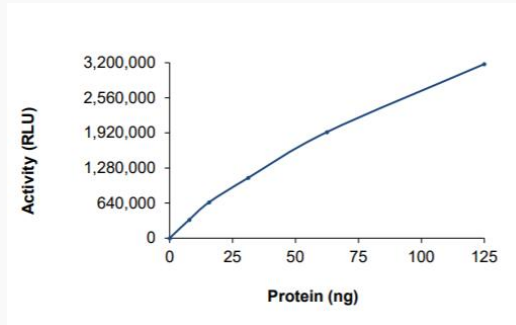
## GENE INFORMATION

<b>Gene Name</b>	DGKG diacylglycerol kinase gamma [ Homo sapiens (human) ]
<b>Official Symbol</b>	DGKG
<b>Synonyms</b>	DGKG diacylglycerol kinase gamma; DAGK3; DGK-GAMMA; diacylglycerol kinase gamma; DAG kinase gamma; diacylglycerol kinase, gamma 90kDa; diacylglycerol kinase gamma; diglyceride kinase gamma; EC 2.7.1.107
<b>Gene ID</b>	1608
<b>mRNA Refseq</b>	NM_001346
<b>Protein Refseq</b>	NP_001337
<b>MIM</b>	601854
<b>UniProt ID</b>	P49619

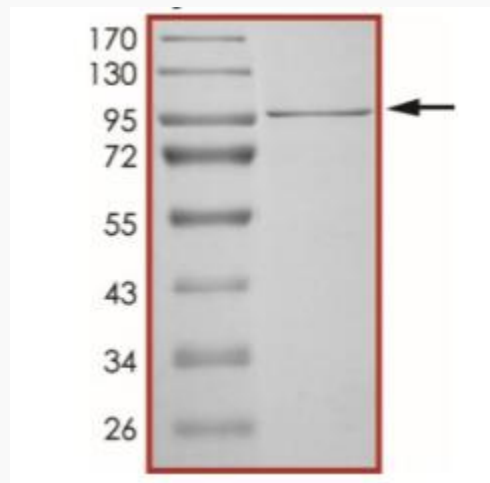
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**Specific Activity**

The Specific Activity of DGKD was determined to be 131 nmol/min/mg as per activity assay protocol.

**SDS-PAGE**

The purity of DGKG was determined to be > 90% by densitometry.

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